

The MBL Awards for 2004

MBL Awards are given for the best paper presented at the General Scientific Meetings by a senior investigator, a junior investigator, a graduate student, and an undergraduate; additional papers are selected for Honorable Mention.

The five presentations selected for MBL Awards this year reflect the broad scope of science at the Laboratory. Among these reports we find that lipopolysaccharide, the prime cause of gram-negative bacterial toxicity, occurs in eukaryotes; that a long-term decrease in synaptic strength is induced by a transient suppression of NMDA receptor activity; that cis editing in a trypanosome is a model of guide-RNA structure and function; that a female lobster's sperm load affects her choice of a mate; and that enzyme activities can be used to assess the stimulatory effect of increased estuarine nitrogen on the growth of sea lettuce. This year's awardees are listed below with the title of their presentation and the page on which their abstract appears.

—The Editor
August 2004

Senior Investigator

- **WINNER** Peter B. Armstrong
with Margaret T. Armstrong, Steven M. Theg, Nikolai Braum, Norman Wainwright, and R. L. Pardy
Histochemical evidence for lipopolysaccharide (endotoxin) in eukaryotes (p. 172)
- **HONORABLE MENTION** Robert M. Gould
with Hilary Morrison, Robert Campbell, and Edwin Gilland
Evolution of myelin proteins (p. 168)

Junior Investigator

- **WINNER** Robert C. Froemke
with Dan Yang
Transient NMDA receptor suppression induces long-lasting synaptic depression (p. 155)
- **HONORABLE MENTION** Chuan-Chin Chiao
with Emma J. Kelman and Roger T. Hanlon
Disruptive body patterning of cuttlefish (*Sepia officinalis*) requires visual information on edges and brightness of objects on natural substrate backgrounds (p. 153)
- **HONORABLE MENTION** James J. Tong
Mitochondrial dynamics in synaptic plasticity in *Drosophila melanogaster* (p. 162)

Graduate Student

- **WINNER** Daniel E. Golden
with Stephen L. Hajduk
Cis editing in *Trypanosoma brucei brucei* as a model

for understanding guide-RNA structural and functional requirements (p. 169)

- **HONORABLE MENTION** Omicron L. Ma
with Sarah E. Webb and Andrew L. Miller
Imaging patterns of Ca²⁺ transients during the blastula period in zebrafish embryos (p. 165)

Undergraduate

- **WINNER** Patrick Flight
with Gabriele Gerlach and Jelle Atema
Sperm load impact on female courtship behavior in the American lobster (*Homarus americanus*) (p. 155)
- **WINNER** Leanna R. Heffner
with Mirta Teichberg, Sophia Fox, and Ivan Valiela
Nitrate reductase and glutamine synthetase activity and growth in *Ulva lactuca* in Waquoit Bay: a time sequence of responses to differences in nitrogen supply (p. 175)
- **HONORABLE MENTION** Clarissa A. Sabella
with Ellen E. Faszewski, Jane C. Kaltenbach, William J. Kuhns, Max M. Burger, and Xavier Fernandez-Busquets
Immunocytochemical detection of integrins α_3 and β_1 in allografts of the marine sponge, *Microciona prolifera* (p. 162)